

SCOPE OF WORK

NEXT GENERATION SEQUENCING REAGENTS

(1) BACKGROUND/STATEMENT OF NEED

CDC-Thailand conduct a research project from pathogenic bacterial isolates. We use Illumina Next Generation Sequencing (NGS) to detect antibiotic drug resistance gene in *Escherichia coli*, *Salmonella* and *Streptococcus agalatae*. CDC-Thailand/DGHP Laboratory has established this assay to looking for drug resistance gene among these organisms in Thailand. This information can be used for antibiotic surveillance which is the global health concern at this time.

(2) OBJECTIVE(S)

The objective is to acquire standard and reliable reagents and supplies which can be used with Illumina sequencer instrument which we have in CDC/DGHP laboratory to generate the accurate, high sensitivity and timely manner.

(3) REQUIREMENTS

No.	Description	Qty	Unit
1	Nextera_XT DNA Sample Preparation Kit (96 samples), Product ID: ILMFC -131-1096	2	kit
2	MiSeq Reagent Kit v2 (500 cycle), Product ID: ILMMS-102-2003	6	kit
3	Nextera XT Index Kit (24 indices, 96 samples), Product ID: ILMFC-131-1001	3	kit
4	Agencourt AMPure XP - 60ml, Product ID: BMCA63881	1	kit

- (a) Reagents and supplies must be used compatible with Illumina NGS instrument
- (b) Reagents must be warranted by Illumina in case of error during the experiment, the distributors have to replace the new kits of reagents
- (c) Reagents should provide the read length 500 base pairs/cycle
- (d) A minimum shelf life of at least 6 months upon delivery date is required
- (e) Special Handling: reagents may require different temperature storage including ambient, 4 C or -20 C as per indication in package insert. The reagent must be delivered in good conditions and timely manner.

(4) Delivery schedule

Within 60 days after PO is Awarded.

(5) OTHER ADDITIONAL INFORMATION

- (a) Reagents and supplies must be commercially available and compatible with the equipment available at CDC/DGHP Thailand: Illumina MiSeq sequencer.
- (b) Vendor must be authorized to provide product in Thailand.
- (c) Vendor must be able to deliver in good conditions and meet delivery date requirements.
- (d) Payment will be made after delivery with 30 days credit.
- (e) Vendor must be able to provide technical assistance and support including replace the new reagents if the assay running error.